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WASHINGTON UNIVERSITY
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WU Record

Published For The Washington University Community

September 5, 1974

Advantages at WU Outlined by Danforth For Class of 1978

Chancellor William H. Danforth addressed the University's freshman class last Thursday in Graham Chapel, congratulated it on being "one of the ablest classes we have admitted in a long time," then stressed what it should do to make the most of Washington University, its faculty and student activities.

He also covered the less positive subjects of inflation, disagreement and disappointment, all of which, he said, are common to the human condition on and off campus.

First, he gave the good news, the advantages of attending Washington University. "We are a university of national stature, not a small college. The faculty make up a community of scholars. Some of our faculty members write books, some paint, some make poems, some design new computers, others are involved in equally worthwhile endeavors. They do these things and they do them well. We believe that a vital, creative individual makes the best teacher and the best learning environment is created when an actively contributing group of scholars is combined with a talented student body. We are able to attract talented faculty to the University because they want to be part of this kind of community and to have the opportunity to make their own contributions both to you as students and to the world of scholarship. Exploration of the unknown intellectual world remains one of modern man's most exciting undertakings. I hope many of you will want to take advantage of this environment and try your hand at research. If you do, you will have the opportunity to add your own piece, be it large or small, to the sum of human knowledge."

Dr. Danforth said that the advantages of Washington University's "medium size" included "a better chance to get to know the faculty and the administrators. You will find that we are interested in getting to know you. I have had people drop into my office for that purpose

(Continued on page 4)



A freshman and his shadow on the move...

Potpourri of Events At Edison this Year

The 1974-75 performing arts season at Edison Theatre will offer patrons a potpourri of events ranging from computerized dance to traditional Shakespearian drama.

Internationally noted stage and film actress Viveca Lindfors will open the season with a one-woman show entitled "I Am A Woman," at 8 p.m. Friday and Saturday, Sept. 13-14. The 90-minute program consists of dramatic vignettes by 36 authors from Bertolt Brecht to Gloria Steinem which deal with what it means to be a woman.

The women portrayed are famous in life and fiction, ranging from Ibsen's Nora to Marilyn Monroe. Ms. Lindfors, who has appeared in more than 50 films and plays in the United States and Sweden, conceived and arranged the show with the help of director Paul Austin. It ran off-Broadway last year.

Next on the September roster is the Playward Bus Theatre Company of Philadelphia's presentation of James

(Continued on page 2)

Origins and Ratings Of Freshman Class Revealed in Profile

A freshman class profile reveals that more than one-half of this September's entering class of about 1000 students ranked in the top 10 per cent of their high school graduating classes.

According to an Admissions Office spokesman, this percentage is "a substantial increase over that in last year's freshman class."

Scholastic Aptitude Test and American College Test figures show this year's freshmen with the same or higher average scores than last year.

A breakdown by schools shows 668 freshmen enrolled in the College of Arts and Sciences, 49 in Business, 164 in Engineering, 50 in Architecture and 63 in Fine Arts.

Preliminary figures indicate a trend on the part of women students to enter what have been considered masculine fields. About one-third of the entering students in business and architecture and one-fifth of the new engineering students will be female.

Forty-three of the 50 states are represented in the entering freshman class, with 230 from Missouri, 139 from New York state, and 131 from Illinois. Students from Puerto Rico, the Virgin Islands and Guam also make up the class, together with representatives of seven European countries, Japan, and Cameroon.

Thirty-five per cent of the freshman class is receiving some form of financial aid. The average scholarship award is more than \$2000; the average loan is about \$700. Eligibility for aid is based on academic quality and financial need.



Viveca Lindfors

Edison

(Continued from page 1)

Weldon Johnson's "God's Trombones," Sept. 21. A semi-professional black repertory company, the theatre was founded in 1958 by Jim Mapp, a New York stage and television actor, producer and director.

The first Performing Arts Area (PAA) production of the year will be Oscar Wilde's "The Importance of Being Earnest," directed by Herbert Metz, associate professor of drama, Oct. 11-13. Subsequent PAA drama productions this year will be "No Place to Be Somebody," by Charles Gordone, directed by Muthal Naidoo, assistant professor of black studies and performing arts, Nov. 15-17, and "The Royal Hunt of the Sun," by Peter Schaeffer, directed by Richard Palmer, chairman of the Performing Arts Area, Feb. 21-23.

One of the more unusual dance companies to appear this year will be the Mimi Garrard Dance Company of New York, which performs Oct. 18-19. The company uses a computerized lighting and sound system created by James Seawright, a noted electronic sculptor and light designer married to Ms. Garrard, and Emmanuel Ghent, composer in residence at the Bell Telephone Laboratories.

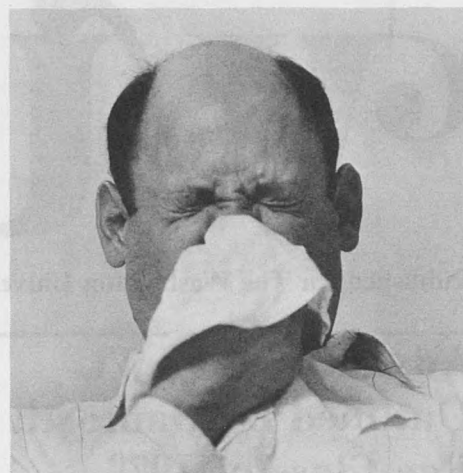
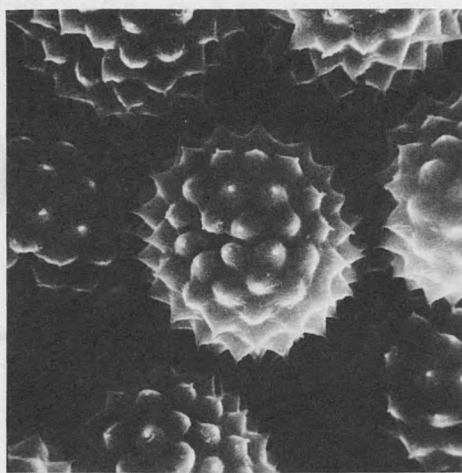
Other dance companies scheduled this season are the Jose Limon Dance Company, sponsored by the Dance Concert Society, Sept. 27-28; the Phyllis Lamhut Dance Company of New York, Nov. 20-23; and the Cliff Keuter Dance Company, also of New York, Jan. 24-25.

The Washington University Dance Theatre will present its annual spring concert April 4-6, directed by Annelise Mertz, associate professor of dance and director of the dance division, and featuring choreography by faculty and guest artists.

Two mime companies with markedly different styles will perform in the theatre. They are Mummenschanz, a Swiss mime-masque theatre composed of three mimists, Oct. 25, and the American Mime Theatre of New York, the oldest professional mime company operating on a continual basis in the Western Hemisphere, Feb. 28.

Three contemporary musicals will be presented Nov. 1-3 by the New York Theatre Company: "The Apple Tree"; "The Fantasticks"; and "Kurt Weill: Berlin to Broadway." The National Shakespeare Company will present two comedies: "The Merchant of Venice" and "Two Gentlemen of Verona," March 21-22.

Some additional events will be scheduled in the theatre during the year and will be announced later.



Scanning electron micrograph, left, of ragweed pollen grain which causes most hayfever symptoms, right, until the first frost. Ragweed is very prevalent in St. Louis.

Biologist Uses Scanning Electron Microscope To Focus on Allergy-Causing Ragweed Pollen

By Dorothy Brockhoff

To the naked eye, pollen grains, whether they be from the Thimbleweed or the Clustered Poppy Mallow, look like so much golden dust. But these ethereal and very frequently sneeze-producing bits of flora have a distinctive character when viewed through the Scanning Electron Microscope.

Biologist Walter Lewis has been using the SEM, an instrument which makes images in much the same manner that a TV set works for intensive study of pollen from plants which cause allergies. The SEM, thanks to its ability to "knock loose electrons from atoms" which make up (in this case) pollen grains, can create pictures on a video screen that have the appearance of depth and three-

dimensional contour.

Ragweed, for example (Enemy Number One for allergy sufferers) resembles a prickly, spiny cactus when seen through the SEM. Grass pollens, on the other hand, are smooth as satin ribbons. Thus, Dr. Lewis was able to characterize various types of pollen in the St. Louis atmosphere. Such differentiation cannot be made with a light microscope.

Once launched on this project, called allergy epidemiology, Dr. Lewis, with the cooperation of private physicians and those at the Washington University and St. Louis University Schools of Medicine, decided to try and determine the general level of allergenicity of various groups of plants. Dr. Lewis and his group studied 42 different kinds of plants in five categories—fungi, grasses, trees, weeds, and meals.

Information from patients' skin tests over a period of years was collected and carefully programmed in a computer. At the same time, Dr. Lewis and his researchers calculated the frequency of various allergy-causing plants. His data show that more patients are allergic to Ambrosia (ragweed) than to just about any other pollen species winging through the air.

Another of the scientists' aims was to try and determine the cross level of reactivity. Their purpose was to discover if patients allergic to one type of weed are equally susceptible to another kind of weed which may or may not be related. "The clinical significance of this work is fantastic," according to Dr. Lewis. "If you can prove that your cross reactivity to the population as a whole is 80 to 90 per cent to genus A as well as genus B—then you need only subject the patient to one skin test instead of two. That would mean a tremendous saving of time, trauma and money," Lewis said.

Registration for General Studies Courses Now Open

If your mind boggles when you're bombarded by figures, and you are forced to accept as fact any mathematical conclusions bounced your way, jog over to 205 South Brookings and register for General Studies Course 190. Entitled "You Figure It Out—First Steps in Mathematical Independence," this course, scheduled to meet from 7-8:30 p.m. each Thursday evening, will be taught by Professor Robert McDowell. It's designed specifically for the "mathematically disadvantaged," and is intended to help you spot phony statistics and incorrect reasoning.

General Studies courses range from "Urban Space and Form: Making Sense of St. Louis," taught by urban affairs graduate student Carolyn Toft, to Dr. Lynn Bloom's "Images of Women in Biography and Autobiography." For more information, call extension 4512. Registration will be accepted through Sept. 17.

ANNOUNCEMENTS

THE WU COMMITTEE on Cancer Research is soliciting grant applications for research proposed for the 1974-75 academic year. The grants, funded by the American Cancer Society, are available in amounts up to \$3000 and are intended primarily for junior faculty members or research fellows. For further information call Dr. George Hill at 454-2217.

DONATIONS OF FURNITURE and home furnishings of all types are needed by the WU Furniture Exchange, a non-profit organization operated by the WU Women's Society which sells used items to students and faculty at bargain prices. Persons who have good, usable items to donate may call ext. 4848 for pick-up.

ENVIRONMENTAL RESPONSE, a WU environmental group, is conducting a postcard census of backyard vegetable gardens in the metropolitan area and will award a prize for the closest estimate of the total number of gardens. The prize will be awarded at an organic garden fair Oct. 5-6 at Shaw's Garden.

RECOGNITIONS

JAMES LAUE, visiting associate professor of sociology, and Gerald Cormick, director of the Community Crisis Intervention Center, both of WU, were co-chairmen of a Community Conflict Management Workshop held at the Battelle Seattle Research Center July 29-Aug. 26. Dr. Cormick and Ms. Jane McCarthy, also of the center, were asked by Washington's Governor Dan Evans to conduct a pilot project on the long-time Snoqualmie River Basin flood control controversy.

DR. DAVID M. KIPNIS, Busch professor and head of the Department of Medicine at the WU School of Medicine, has been elected a fellow of the American Academy of Arts and Sciences. He was among 117 scientists, scholars, public figures, artists and writers named to the academy this year.

The WU Record is published weekly during the academic year by the Office of Information, director, Roger Signor; editor, Kathy Pearson; contributing editors, Dorothy Brockhoff, King McEiroy; calendar editor, Judy Thomasson. Photographs by Herb Weitman, Rick Levine and Gail Cissna. Address all communications to the editor, Box 1142.

BIOLOGY PROFESSOR Rita Levi-Montalcini is one of three Americans among six new members appointed to the Pontifical Academy of Sciences. She is the first woman to be named to the 57-member academy established by Pope Pius XI in 1936. Professor Levi-Montalcini was also a co-winner with Professor Stanley Cohen, Vanderbilt University, of the National Paraplegia Foundation's \$10,000 William Thomson Wakeman Award. Both honors were presented for research which led to the identification of a chemical that enhances the growth and development of nerve cells.

DR. ELI ROBINS, Wallace Renard Professor of Psychiatry and head of the department at the WU School of Medicine, has received the Gold Medal from the Society of Biological Psychiatry. The distinguished research award was established by the Society to honor pioneer work in the field.

STANLEY ELKIN, novelist and professor of English at WU, has received a \$3,000 literary award from the American Academy of Arts and Letters and the National Institute of Arts and Letters. The award, one of several made to writers this year, is for Professor Elkin's past work, rather than a specific work.

DONALD FINKEL, poet-in-residence at WU, has received the Theodore Roethke Memorial Award for his book of poetry, *Adequate Earth*. The \$3000 award was established in memory of Roethke, an American poet, by the inhabitants of Saginaw, Mich., his birthplace.

DR. P. ROY VAGELOS of the WU School of Medicine's Department of Biochemistry has been named to the National Research Council's Commission on Human Resources, which will study a variety of problems including science and engineering education and employment for women and minority groups.

TWO WU FACULTY MEMBERS, Barbara Pickard, associate professor of biology, and Robert Yaris, professor of chemistry, have been awarded Guggenheim Fellowships. Professor Pickard will continue her experimental studies in plant physiology at Carleton and Ohio State universities. Professor Yaris will continue his studies in theoretical chemistry at the Technical Institute in Munich. Both will be on leave this year.

GILBERT R. WHITAKER, JR., associate dean of WU's Graduate School of Business Administration, has been elected chairman of the board of trustees of the Graduate Business Admissions Council, Inc., an organization of leading graduate business schools.



Mrs. Beulah Stamper



John F. Lynch

New Trustees Announced

Mrs. Beulah Stamper of St. Louis, and John F. Lynch of Houston, Texas, have been named members of the WU Board of Trustees. Born in Moberly, Mo., Mrs. Stamper is a graduate of the University of Iowa. A resident of St. Louis for the past 37 years, she served for many years as a volunteer at St. Louis Children's Hospital and currently is a board member of the Community Association of Schools for the Arts, St. Louis Symphony, St. Louis Neighborhood Health Center and Children's Home Society. She is the widow of Howard A. Stamper, who was vice chairman of the WU board of trustees.

Mr. Lynch was born in Catawissa, Mo., and attended Washington University. At the time of his early retirement in 1971, he was senior vice president of Texas Eastern Transmission Corp. and president of La Gloria Oil and Gas Company. He continues to serve as a director and member of the finance committee of Texas Eastern. Former president of the Natural Gasoline Association of America, he has served on the Texas Commission for Higher Education and the Governing Board of State Colleges and Universities. A member of the National Council of the Boy Scouts, his numerous civic posts include directorships of the Houston Symphony Society, Museum of Natural Science and St. Luke's Episcopal Hospital.

APPOINTMENTS

JOHN B. ERVIN, dean of WU's School of Continuing Education, has been named president-elect of the National University Extension Association. Dean Ervin will assume the presidency next year.

THREE NEW APPOINTMENTS in the WU Research Office have been announced: Myron P. Mustaine, formerly of Georgia State University, has been named Sponsored Projects Administrator; Mrs. Nancy Wagner, formerly a secretary in the Research Office, has been promoted to sponsored projects specialist; and Mrs. Blanche Jones, formerly sponsored projects assistant, has been promoted to sponsored projects associate.

Calendar

September 5-11

FRIDAY, SEPTEMBER 6

4 p.m. **Chemistry Department Seminar**, "Reactions Showing Oscillations in Time and Space," by Professor R. M. Noyes, University of Oregon. Room 311, McMullen Laboratory. A coffee at 3:30 p.m. will precede the lecture.

MONDAY, SEPTEMBER 9

5:30 p.m. **Third Annual Wendell G. Scott Memorial Lecture**, "External Forces on Radiology," by Dr. John M. Dennis, Dean of the School of Medicine and Head of the Department of Radiology, University of Maryland. Scarpellino Auditorium, Mallinckrodt Institute of Radiology, 510 South Kingshighway.

WEDNESDAY, SEPTEMBER 11

3:30 p.m. **George Warren Brown School of Social Work Lecture**, "The Role of the Social Work Student in the Professional Organization and on the Service Scene," by Chauncey Alexander, Executive Director, National Association of Social Workers. Brown Lounge, Brown Hall. Free and open to the public.

FILMS

FRIDAY, SEPTEMBER 6

8:15 p.m. **Regular Film Series**, "Zero for Conduct / L'Atalante" by Jean Vigo. Steinberg Auditorium. \$1.50. Also at 2:30 p.m. Sunday, September 8.

WEDNESDAY, SEPTEMBER 11

11 a.m. **A Documentary Film**, "I. F. Stone's Weekly," in the Edison Theatre. Opening program in the Washington University Assembly Series. Free and open to the public.

PERFORMING ARTS

SATURDAY, SEPTEMBER 7

7 p.m. **ORIENTATION CONCERT '74**, Richie Havens and John Sebastian in the Quadrangle (Field House in case of rain). \$5 in advance, \$6 at the gate.

EXHIBITIONS

Great Ideas in Western Thought. Original interpretations of between 60 and 70 Great Ideas in Western Thought, through courtesy of the Container Corporation of America. Steinberg Gallery, Sept. 9 through Oct. 6.

What's the Faculty Writing? New Directory Tells All

Two paperback editions of a handy new bibliography which makes clear who is writing what on the Hilltop campus these days were issued this summer. A "Bibliography of Washington University Faculty Publications and Creative Activities for 1973," one edition is set in standard type and numbers 50 pages; the other is a photographically reduced version which squeezes the identical contents into compact size. To obtain a copy of the "PRE" version, call station 4647.

Thumbing through either compendium, readers will find 647 titles (monographs, articles, reviews and books) by 262 faculty members not counting the varied efforts of the performing arts staff.

Edited by Renata Rotkiewicz, assistant University librarian, each directory is arranged by subject matter with individual contributors listed alphabetically under each category.

There are a number of single entry contributors; there are also some like economist Murray Weidenbaum with more than a page of title listings. Some entries are easy for a layman to understand. Biologist Garland Allen, for example, writes of "The Concept of Education in Cuba" in *Crossroads* (May, 1973). Others are much more abstruse.

Our nomination for one of the most intriguing titles is Willam Gass's "Upright Among Staring Fish" which ran in *The Saturday Review of the Arts* in January, 1973.

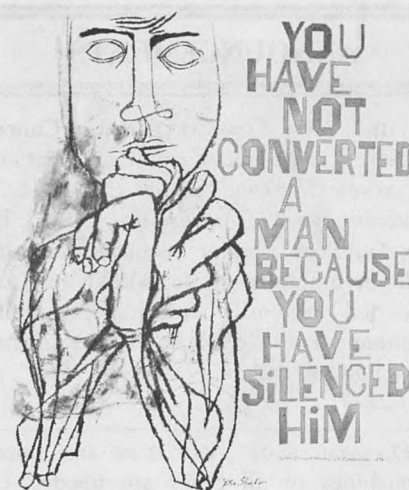
Danforth

(Continued from page 1)

alone. There is a better chance to know your classmates well. Our academic programs are very flexible. Interdisciplinary study is easy. Educational programs can be tailored to your individual needs."

Out-of-classroom activities were encouraged by Dr. Danforth, who said that while the faculty and staff would be supportive, "the vitality of campus life will depend on your initiative." Both in extracurricular and outside activities, "there is a greater chance for you as individual students to make an impact and to leave your mark on the University."

"Now let me mention a few realities," he said. "Our country is in the grip of serious inflation," which makes planning for all institutions difficult. "Room and board costs for this academic year were set and announced last summer, the summer of 1973. In the intervening year, food costs have increased over 10 per cent. They are still going up rapidly. We have done everything we can to buy ahead and to cut down overhead, but one thing is clear: Washington University



This ink and charcoal drawing by Ben Shahn is one of approximately 70 art works in a Great Ideas of Western Thought exhibit to be on display Sept. 9-Oct. 6 at Steinberg Hall.

students will not eat as well this coming year as we had planned. We have only so much money to spend. George Burris, head of the Food Service, and others of us will do our best to make the resources go as far as possible, but compromises will have to be made in the cafeterias. Students are not alone in suffering the consequences of inflation. Raises for faculty and staff have not kept up with the cost of living. Let us hope that these inconveniences, if put in perspective, will not detract from your getting a first-rate education and from Washington University's having a vital academic community."

Dr. Danforth said that a second bit of reality was that "scholars disagree, students disagree, administrators disagree. A university goes to elaborate lengths to protect the rights of faculty and of students to seek the truth and to describe it as he or she sees it. It follows that not all descriptions may be the same. Disagreement must be possible without fear of job or status, if the University is to succeed in serving well a free society. It is important to realize, however, that disagreement need not lead to strife. The greatest learning can come about when there is tension between ideas, not caused by hostility of opposite purposes but by a mutual concern for finding answers to urgent and honest questions."

Dr. Danforth also referred to the reality that students will be disappointed in their four years at the University—disappointed with some students, some faculty, some administrators, possibly in themselves. "The individual who has never been disappointed, who has never failed is the individual who has never lived fully, who has never set high goals or ventured from the safest of havens. I would urge you never to let the inevitable disappointment lead to discouragement or defeat."